

DATE: August 24, 2004
TO: Municipal Clerk
FROM: Byron E. Johnson, C.P.M.
Director of Purchasing x 4313
THRU: Aurora Wells
Interim Bid Clerk ext. 4038



Pease place the following item on the **CONSENT** agenda for the Council Meeting of **AUGUST 31, 2004.**

Item should read as follows:

Change Order No. Three (Construction Change) to J. D. Abrams, L. P. for "Clint Landfill Phase I, Cells 1 and 2 project" for an increase amount of \$27,139.02. The purpose of this change order is:

1. To furnish and install an additional nine (9) Buffer zone and five (5) Easement markers. \$3,278.68
2. To provide electrical power to the surveillance cameras at the Landfill Cell No. 1 and at the fee house. \$10,235.00
3. To construct a 20' x 100' concrete approach slab to the waste screening pad. \$15,793.33
4. To fabricate and install two (2) each anti-vortex on the 24" RCP risers at the retention pond. \$1,066.33
5. To furnish 2-tripods, tribrach w/opt. Plummet, marine battery and battery charger for the GPS system. \$1,071.68
6. Video Surveillance System: (\$4,306.00)
 - * To eliminate the NEMA 12 trailer mounted camera control cabinet including solar power supply at Landfill Cell No. 1.
 - * Install the video cameras on existing power poles at Landfill Cell No. 1 and fee house.
 - * Install the 10 MPS link to the Solid Waste Offices to the existing communication tower at the Landfill.

Contact person: Byron E. Johnson C.P.M., Director of Purchasing at (915) 541-4313.

AGENDA FOR: **AUGUST 31, 2004**

Agenda Item Form

Agenda Date: 08/31/04

Districts Affected: All

Dept. Head/Contact Information: BYRON E. JOHNSON, DIRECTOR, PURCHASING, 541-4313

Type of Agenda Item:

- | | | |
|---|---|--|
| <input type="checkbox"/> Resolution | <input type="checkbox"/> Staffing Table Changes | <input type="checkbox"/> Board Appointments |
| <input type="checkbox"/> Tax Installment Agreements | <input type="checkbox"/> Tax Refunds | <input type="checkbox"/> Donations |
| <input type="checkbox"/> RFP/ BID/ Best Value Procurement | <input type="checkbox"/> Budget Transfer | <input type="checkbox"/> Item Placed by Citizen |
| <input type="checkbox"/> Application for Facility Use | <input type="checkbox"/> Bldg. Permits/Inspection | <input type="checkbox"/> Introduction of Ordinance |
| <input type="checkbox"/> Interlocal Agreements | <input type="checkbox"/> Contract/Lease Agreement | <input type="checkbox"/> Grant Application |
| <input checked="" type="checkbox"/> Other <u>Construction Change Order Increase</u> | | |

Funding Source:

- ☐ General Fund
- ☐ Grant (duration of funds: _____ Months)
- ☒ Other Source: Revenue Bond

Legal:

- ☐ Legal Review Required Attorney Assigned (please scroll down): Ruth Reyes ☐ Approved ☐ Denied

Timeline Priority: ☒ High ☐ Medium ☐ Low # of days: _____

Why is this item necessary:

To be able to continue construction of Clint Landfill Phase I, Cells 1 and 2.

Explain Costs, including ongoing maintenance and operating expenditures, or Cost Savings:

Please see the attached Change Order for Description Changes.

Statutory or Citizen Concerns:

.N/A

Departmental Concerns:

N/A

DATE: AUGUST 24, 2004
TO: Municipal Clerk
FROM: Byron E. Johnson, C.P.M.
Director of Purchasing x 4313
THRU: AURORA WELLS
Interim Bid Clerk ext. 4038

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Item should read as follows:

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6. Video Surveillance System: (\$4,306.00)
 - * To eliminate the NEMA 12 trailer mounted camera control cabinet including solar power supply at Landfill Cell No. 1.
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 - * Install the 10 MPS link to the Solid Waste Offices to the existing communication tower at the Landfill.

Contact person: Byron E. Johnson C.P.M., Director of Purchasing (915) 541-4313.

AGENDA FOR: **AUGUST 31, 2004**

**CITY OF EL PASO PURCHASING
CHANGE ORDER**

DATE: 08/23/04

CHANGE ORDER NO.: 03

☐ SCOPE CHANGE

☒ CONSTRUCTION CHANGE

PROJECT: CLINT LANDFILL PHASE I, CELLS 1 AND 2

BID NO.: 2004-074

TO (Contractor): J. D. ABRAMS, L.P.

DEPT. ID#: 34340100

PROJ/GRANT/USER: PPWFA03019

FUND: 40426

ACCOUNT: 508027

PO NO.: 2004007309

You are directed to make the following changes in this Contract:

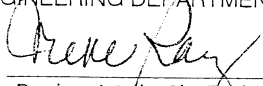


- 1) To furnish and install an additional nine (9) Buffer Zone and five (5) Easement markers. \$ 3,278.68
 - 2) To provide electrical power to the surveillance cameras at the Landfill Cell No. 1 and at the fee house. \$ 10,235.00
 - 3) To construct a 20'x100' concrete approach slab to the waste screening pad. \$ 15,793.33
 - 4) To fabricate and install two (2) each anti-vortex on the 24" RCP risers at the retention pond. \$ 1,066.33
 - 5) To furnish 2-tripods, tribrach w/opt. Plummet, marine battery and battery charger for the GPS system. \$ 1,071.68
 - 6) Video Surveillance System: (\$ 4,306.00)
- * To eliminate the NEMA 12 trailer mounted camera control cabinet including solar power supply at Landfill Cell No. 1
- * Install the video cameras on existing power poles at Landfill Cell No. 1 and fee house.
- * Install the 10 MPS link to the Solid Waste Offices to the existing communication tower at the Landfill.

CHANGE ORDER AMOUNT : \$27,139.02

Original Contract Sum	\$2,966,750.00
Net Change by previous Change Orders	\$515,804.09
Contract Sum prior to this Change Order	\$3,482,554.09
Contract Sum will be (increased) (decreased) (unchanged) by this Change Order	\$27,139.02
New Contract Sum, including this Change Order	\$3,509,693.11
Total Net Value of Change Orders To Date	\$542,943.11

Contract Time will be (increased) (decreased) (unchanged) BY (0) DAYS*

Net Change Order Percentage (Not to exceed 25%) 18.30%

CITY OF EL PASO	ARCHITECT / ENGINEER	CONTRACTOR
TWO CIVIC CENTER PLAZA EL PASO, TX-79901	HUITT-ZOLLARS, INC.	J.D. ABRAMS, L.P.
CITY COUNCIL ACTION REQ'D: CIRCLE ONE: YES NO DATE APPROVED: _____		
ENGINEERING DEPARTMENT: By:  Irene Ramirez, Interim City Engineer	By:  Date: 8/24/04	By:  Mark Doherty, Proj. Mgr
Date: 8/24/04	Date: 8/24/04	Date: Aug 24, 2004

* Subject to the terms of the Contract, GENERAL CONDITIONS, SECTION 2.5

REQUEST FOR CHANGE ORDER

TO: Contract Compliance **DATE:** 08/23/04
FROM: Kareem Dallo **Engineering** **ext.** 4425
RE: Project: Clint Landfill Phase I, Cells 1 and 2 **Bid No:** 2004-074

Change Order No: 3

Please Indicate Type: Construction ☒ Scope ☐

Please Indicate Action to PO: Increase ☒ Decrease ☐

Change in Contract Time: 0 Days

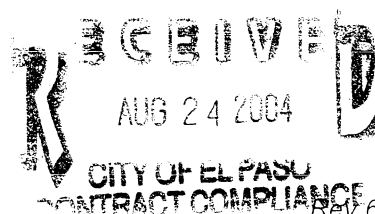
Change Order Amount: \$27,139.02

Unforeseen Condition:	\$
Value Engineering:	<u>(\$4,306.00)</u>
Error/Omission:	<u>\$21,210.02</u>
User Request:	<u>\$10,235.00</u>
Total	<u>\$27,139.02</u>

Justification:

- 1) To furnish and install an additional Nine (9) Buffer Zone and Five (5) Easement markers.
- 2) To provide electrical power to the surveillance cameras at the Landfill Cell No. 1 and at the fee house.
- 3) To construct a 20'x 100' concrete approach slab to the waste screening pad.
- 4) To fabricate and install two (2) each anti-vortex on the 24" RCP risers at the retention pond.
- 5) To furnish 2-tripods, tribrach w/opt. plummet, marine battery and battery charger for the GPS system.
- 6) Video Surveillance System:
 - To eliminate the NEMA 12 trailer mounted camera control cabinet including solar power supply at Landfill Cell No. 1
 - Install the video cameras on existing power poles at Landfill Cell No. 1 and fee house.
 - Install the 10 MPS link to the Solid Waste Offices to the existing the communication tower at the Landfill.

Attachments: Problem/Solution Rationalization
Contractor's Cost Proposal



JUSTIFICATION
Clint Landfill Phase I, Cells 1 and 2
Change No. 3

1) --Type of Change Order: Error/Omission \$3,278.68

Reason: Plan Sheet No. 28 of 30, Landfill Markers Location Plan did not provide sufficient Buffer Zone markers in order to identify the zone around Cell Nos. 1 & 2. In addition, the plans were deficient in easement markers to define the El Paso Natural Gas Company and El Paso Electric Company easements.

Solution: It was recommended by the Consultant that these additional markers be fabricated and installed to ensure that the requirements of the permit were met.

2) --Type of Change Order: User Request: \$10,235.00

Reason: The site survey and analysis performed by the system integrator recommended that the trailer-mounted camera be deleted from the contract. This camera was to be operated utilizing a solar power supply.

Solution: To provide electrical power from the leachate control panel @ Cell No. 2 to the permanently mounted camera in the vicinity of Cell No. 2.

3) --Type of Change Order: Error/Omission \$15,793.33

Reason: According to the Plan Sheet Nos. C-2 & C-3 of the Waste Screening Pad construction plan, a 100' x 100' pad was shaded and the Legend indicated the pad to be constructed with 3600 psi reinforced concrete. The 20'x100' approach slab was not shaded on these sheets for construction.

Solution: The consultant clarified that the 20' concrete approach should have been shaded and that it needs to be constructed in order to create a swale to divert the runoff from entering the waste screening pad.

4) --Type of Change Order: Error/Omission \$1,066.33

Reason: The plans did not provide a detail of the Anti-Vortex to install on the 24" RCP Risers at the detention pond.

Solution: The consultant provided the contractor a detail of the Anti-Vortex. The Anti-Vortex was fabricated and installed by the contractor.

5) --Type of Change Order: Error/Omission \$1,071.68

Reason: The Global Positioning System (GPS) obtained through the contract did not include the necessary accessories to mount and to provide power to the system.

Solution: In order for Solid Waste Management to utilize the system, 2- tripods, tribrach w/opt plummet, battery and battery charger were obtained.

6) --Type of Change Order: Value Engineering (\$4,306.00)

Reason: The system integrator performed a site survey and analysis in accordance to Section 13760, Video Surveillance in the contract. This investigation indicated that the trailer-mounted camera has a very low wind loading resistance and that any movement of the trailer would result in a very expensive cost to align the antenna to transmit a 13-mile signal to the Solid Waste office.

Solution: It was determined to eliminate the trailer-mounted camera and permanently mount the camera. In addition, the existing communication tower at the landfill will be used for the 10 MPS link to the main Solid Waste Management office. This modification to the system should provide a turnkey system with the best signal ratio from the site and the best environment for the equipment.

Additional time requested: No time was negotiated at this time.

Cost Analysis for Clint Landfill 110 Volt Electric, Approach Slab, Anti Vortex, Markers

Bid No. 2004-074
Project Clint Landfill Phase 1
El Paso
Contractor: J.D. Abrams, L.P.

6/30/2004

LABOR					
TRADE	QTY.	HRS	MHR'S	RATE	TOTAL
MARKERS					
LABOR (2)	2	16	32	8.00	256.00
SUPERVISOR	1	16	16	24.75	396.00
				SUB-TOTAL	652.00
LABOR MARKUP					-
LABOR SURCHARGE			30.00%		195.60
				TOTAL :	\$ 847.60

ELECTRICAL	QTY.				TOTAL
NEMA BOXES 12" X 12"	2	EA			
WEATHERPROOF OUTLET	2	EA			
TRENCHING & WIRE					
7.5 KVA TRANSFORMER	1	EA			\$ 3,287.00
LABOR	1	LS			\$ 5,028.00
EQUIPMENT	1	LS			\$ 585.00
				TOTAL :	\$ 8,900.00

EQUIPMENT					
DESCRIPTION	QTY.		HOURS	RATE	TOTAL
MARKERS					
UTILITY TRUCK (w/ Boom)	1		8	37.50	300.00
PICK UP	1		16	7.50	120.00
				SUB-TOTAL:	420.00
MARKUP:					-
				TOTAL :	\$ 420.00

MATERIALS					
DESCRIPTION	QTY.		UNIT	RATE	TOTAL
CONCRETE 3,000PSI	4		CY.	67.50	270.00
Steel Post Markers	14		EA	78.40	1,097.60
Paint	5		GAL	43.17	215.83
Anti-Vortex Device	2		EA	463.62	927.24
Approach Slab Concrete	222		SY	61.80	13,733.33
GPS					
Tripod	2		EA	178.61	357.23
Tribrach w/ opt plummet	1		EA	541.25	541.25
Marine Battery	1		EA	86.60	86.60
Deep Cycle Charger	1		EA	86.60	86.60
				SUB-TOTAL:	17,315.68
MARKUP:					
				TOTAL :	\$ 17,315.68

MARKUP

TOTAL : \$ 27,483.28
15.00% \$ 3,961.74
\$ 31,445.02

Cost Analysis for Clint Landfill Video Surveillance System

Bid No. 2004-074
Project Clint Landfill Phase 1
El Paso
Contractor: J.D. Abrams, L.P.

LABOR					
TRADE	QTY.	HRS	MHR'S	RATE	TOTAL
Install, Align, Calibrate, Test	1	LS		9000.00	9000.00
Mob. Housing, PerDiem	1	LS		3000.00	3000.00
Tower Crew	1	LS		2795.00	2795.00
				SUB-TOTAL	14,795.00

EQUIPMENT					
DESCRIPTION	QTY.		UNIT	RATE	TOTAL
Bucket Truck & Crew	16		HRS	37.50	600.00
Portable Generator	40		HRS	5.00	200.00
				SUB-TOTAL	800.00

MATERIALS					
DESCRIPTION	QTY.		UNIT	RATE	TOTAL
Motorola Canopy					
5.7 GHz Subscriber Module	2		EA	755.00	1,510.00
5.7 GHz Access Point	2		EA	1105.00	2,210.00
Backhaul Module	2		EA	1255.00	2,510.00
CMM MICRO	1		EA	1395.00	1,395.00
Universal Mtg Bracket	6		EA	25.00	150.00
Ethernet Surge Supp	6		EA	40.00	240.00
Power Supply	2		EA	35.00	70.00
DVTEL					
Software	1		EA	1200.00	1,200.00
Single Port Encoder	2		EA	995.00	1,990.00
Camera License	1		EA	195.00	195.00
User License	1		EA	270.00	270.00
Client Workstation PC	1		EA	3300.00	3,300.00
17" CCTV Flat Panel Monitor	1		EA	715.00	715.00
CCTV Keyboard Control	1		EA	1775.00	1,775.00
Keyboard License	1		EA	550.00	550.00
CAMERA					
Infrared PTZ 23X Zoom Outdoor	2		EA	3335.00	6,670.00
Mounting Bracket & Pole	2		EA	185.00	370.00
Lightning/Surge Protector	2		EA	100.00	200.00
Power Supply	2		EA	150.00	300.00
HARDWARE					
Cable Connectors	1		EA	615.00	615.00
Shipping	1		LS	844.00	844.00
				SUB-TOTAL	27,079.00

CREDIT					
4" diam aluminum Post	40	LF	12.60		\$504.00
Base	2	EA	65.00		\$130.00
Fee House Electric	1	LS	346.00		\$346.00
				SUB-TOTAL:	\$980.00
				TOTAL	41,694.00

SCHEDULED VALUE \$ 46,000.00

TOTAL CREDIT \$ 4,306.00



Connectivity Inc

3733 NW 16th Street, Suite C
Lauderhill, Florida 33311
877-776-9542 fax 954-5871656

2/10/2004

CITY OF EL PASO TEXAS CLINT LAND FILL BID

ITEM NUMBER	DESCRIPTION	MSRP	QUANTITY	EXTENDED PRICE
MOTOROLA CANOPY				
1	5.7 GHz Subscriber Module (SM)	\$755	2	\$1,510
2	5.7 GHz Access Point (AP)	\$1,105	2	\$2,210
3	5.7 GHz Backhaul Module w/reflector	\$1,255	2	\$2,510
4	CMM MICRO	\$1,395	1	\$1,395
5	DESCRIPTION			
6	Universal Mounting Bracket	\$25	6	\$150
7	Ethernet Surge Suppressor	\$40	6	\$240
	POWER SUPPLY	\$35	2	\$70
DVTEL				
	NVRS CLASSIC			
8	BASE SOFTWARE SYSTEM	\$1,200	1	\$1,200
9	SINGLE PORT ENCODER (HARDEND)	\$995	2	\$1,990
10	CAMERA LICENSE	\$195	1	\$195
11	USER LICENSE	\$270	1	\$270
12	CLIENT WORKSTATION PC	\$3,300	1	\$3,300
13	17" CCTV FLAT PANEL COLOR MONITOR	\$715	1	\$715
14	CCTV KEYBOARD CONTROL	\$1,775	1	\$1,775
15	KEYBOARD LICENSE	\$550	1	\$550
CAMERA				
	AMERICAN DYNAMICS			
16	INFRARED PTZ 23X ZOOM OUTDOOR	\$3,335	2	\$6,670
17	MOUNTING BRACKET AND POLE	\$185	2	\$370
18	LIGHTNING/SURGE PROTECTOR	\$100	2	\$200
19	POWER SUPPLIES	\$150	2	\$300
LABOR				
	INSTALLATION, ALIGNMENT, CALIBRATION, TESTING			
20	2 MEN @750 PER DAY * 6 DAYS	\$9,000.00	1	\$9,000
21	EXPENSES	\$3,000.00	1	\$3,000
22	TOWER CREW	\$2,795.00	1	\$2,795
HARDWARE				
23	CABLE, CONNECTORS,	\$615	1	\$615
				\$41,030
24	TOTAL SHIPPING			\$844
TOTAL	FINAL SYSTEM DELIVERED/INSTALLED			\$41,874

May 20, 2004

Ron Eckels
Ortega Construction

Dear Ron,

This letter is to give you my preliminary findings for the Camera system for the City of El Paso landfill project.

Upon my inspection of the proposed camera locations and the Solid Waste offices I took GPS coordinates for all locations and did calculations for the RF Backbone. From the results of those calculations and my site observations I am making the following recommendations for the camera system.

- 1) The elimination of the trailer mounted camera.
- 2) The use of the existing communications tower for the 10 MPS link to the Solid Waste Offices.

These are the reasons for these recommendations.

- 1) The trailer has a very low wind load rating (approximately 30-35 MPH)
- 2) Because of the 13+ mile hop the antenna alignment is a very expensive task and would have to be done even if the trailer is moved a few feet.
- 3) In conversations with Richard Adams it would be preferable to have the cameras and Backbone System permanently mounted.
- 4) A camera location in the NE corner of the site would accomplish the desired view of the Landfill.
- 5) There is no LOS (line of site) path from existing structures at the Landfill

The best recommendation that I can give is to have the 10 MPS link from the Landfill mounted on the existing communications tower at 80' to 120' level. This would provide the best signal ratio from that site. The camera subscriber modules would shoot back to the access points also located at the tower, to the backhaul module linked to the Solid Waste offices. This would also provide the best environment for the equipment because it will be located inside an air-conditioned building.

My secondary recommendation would be to construct a 40-50 ft. self-supporting tower near the fee station, where the Backhaul module could be located. This would provide a reasonably good communications link to the Solid Waste offices. To facilitate this configuration electricity would need to be run to the new tower.

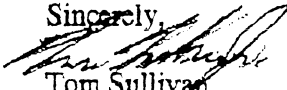
I would also recommend that power be run to the existing pole on the NE corner of the property.

It is my belief that the overall budget for this project would be very close to the same price with which ever configuration we decide to use, because of the savings from the price of the trailer and the solar power the costs would be very near the same. with the added benefit of a much more robust system.

I will give you an updated equipment list and pricing when we make a decision on which configuration we will use.

I look forward to your thoughts on these recommendations.

Sincerely,



Tom Sullivan
Connectivity Inc.



Kimley-Horn
and Associates, Inc.

August 11, 2004

Jaime Flores
City of El Paso
Two Civic Center Plaza, 4th Floor
El Paso, TX 79901

Subject: Clint Landfill Waste Screening Pad

Mr. Flores:

Per your request, the letter dated Aug. 9, 2004 from JD Abrams has been reviewed. The additional 222.22 sy of concrete for the approach slab is correct per this letter.

Should you have any questions or comments, please do not hesitate to contact this office.

Sincerely,

KIMLEY-HORN AND ASSOCIATES, INC.

Kimberly D. Sanchez, P.E.
Project Engineer

■
Suite 400
1014 N. Mesa
El Paso, Texas
79902



J.D. ABRAMS, L.P.

1171 LARRY MAHAN
EL PASO, TEXAS 79925
(915) 593-7393
FAX (915) 591-2780

August 9, 2004

City of El Paso
Engineering Department
2 Civic Center Plaza, 4th Floor
El Paso, Texas 79901-1196

Re: Clint Landfill Phase I, Cells 1 and 2
Bid No. 2004-074
JDA Job No. 0402

Dear Sir:

On June 30, 2004 we submitted a cost proposal for the concrete segregation pad at the Clint Landfill, a change to the scope of work. That cost proposal detailed work to provide a 100 feet by 100 feet reinforced concrete slab with curb and inlet. The dimensions were derived from plans provided to us and marked with shaded portion of the plans detailing "proposed concrete slab" (1111.11 square yards). Our proposed price of \$61.80 per square yard was accepted.

During layout of the slab, the design engineer informed us that the approach slab was also required (20 feet by 100 feet, or 222.22 square yards). The engineer stated that she neglected to highlight this part of the work. Until this time our company and the city inspector thought this slab was only a 100 feet by 100 feet slab, and the detailed takeoff used those dimensions.

We request that the compensation for the completed work be increased at our proposed unit price of \$61.80 per square yard for an additional \$13,733.20. This work is complete and ready for use.

Sincerely,

J. D. ABRAMS, L.P.


Mark A. DeHarde,
Project Manager

cc: File 0402 City – Out

CONSTRUCTION

Buyer: **JAY**
 Bid No. **2004-074**
 Contractor: **JD ABRAMS LP**
 Contract Value: \$ 2,966,750.00
 Change Orders Value: \$ 515,804.09
 Net Contract Value: \$ 3,482,554.09
 Paid to Date: \$ 2,654,138.40
 Contract Balance: \$ 828,415.69
 Percent Paid: 76.21%

Project Name: **CLINT LANDFILL PHASE I,
CELLS 1 AND 2**
 Purchase Order: **PO2004007309**
 Funding Source: **REVENUE BOND**
 Peoplesoft Accounts: **508027-40426-34340100-PPWFA03019-34010**

PAYMENT HISTORY				
Check Date	Invoice No.	Period Ending	Amount	Remarks
05/04/04	2004-074-1	04/30/04	\$ 203,213.55	VC04066660
06/11/04	2004-074-2	05/31/04	1,648,795.13	VC04077502
07/14/04	2004-074-3	06/30/04	802,129.72	VC04087116

CHANGE ORDER HISTORY				
No.	Scope	Construction	Total CO	COs to Date
01		\$ 410,994.00	\$ 410,994.00	\$ 410,994.00
02		104,810.09	104,810.09	515,804.09
		-	-	515,804.09
		-	-	515,804.09
		-	-	515,804.09
		-	-	515,804.09
		-	-	515,804.09
		-	-	515,804.09
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		-	-	515,804.09